

C

SWE110

Lesson 3

Prof. Zachi Baharav

zbaharav@cogswell.edu

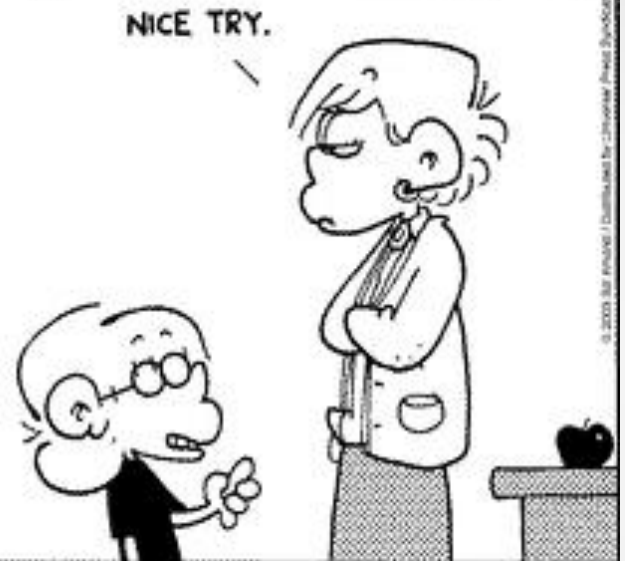
Lesson 3

- In this lesson:
 - Program control
 - if()
 - True/false
 - while(), do{} while();
 - for()
 - (we will not cover case() right now)
 - Byte, Bit, Character, ASCII, integers
 - Misc: constant, ++ , #ifdef
 - Break/Continue

 - Homework 3
 - Lab

```
#include <stdio.h>
int main(void)
{
    int count;
    for (count = 1; count <= 500; count++)
        printf("I will not throw paper airplanes in class.");
    return 0;
}
```

ANEND 10-3



Program control: if()

```
if ( condition)
    printf("It's true!!");
else
    printf("False");
```

Block of statements:

```
if ( condition)
{
    printf("It's true!!");
}
else
{
    printf("False");
}
```

Just 'if':

```
if ( condition)
    printf("It's true!!");
```

Program control: if() (cont.)

What is truth?!?

Value of **0 (ZERO)** is false.

Thus, these are equivalent:

if(a != 0) is same as **if(a)**

while()

```
while (condition)
```

```
{
```

```
... do these commands.
```

```
... can also be only ONE statement
```

```
}
```

```
while (condition)
```

```
do only ONE statement;
```

```
Do
```

```
{
```

```
.. Statements here
```

```
}while (condition);
```

for (the tricky one)

```
for ( initial1 , initial2 ; condition ; end of loop )
{
    ....Block of statements, or one command!
}
```

```
for ( i=0, j=9 ; i<10 ; ++i , --j )
    printf(" i*j = %d\n", i*j);
```

for (the tricky one)

```
for ( i=0, j=9 ; i<10 ; ++i , --j)  
    printf(" i*j = %d\n", i*j );
```

```
i=0;  
j=9;  
While( i<10 )  
{  
    printf(" i*j = %d\n", i*j );  
    ++i ;  
    --j ;  
}
```


PLEASE!!

- Read chapter/tutorial on program control.
- It will really help !

Time to program!!
...

END